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TI Role of sulfates in the pozzolanic properties of a fly
ash from a steam power plant
AU Vaquier, A.; Carles-Gibergues, A.
CS Lab. Mineral. Cristallogr., Fac. Sci., Toulouse, Fr.
SO Revue des Materiaux de Construction et de Travaux Publics (1970), No. 662,
331-7
CODEN: RMCNAG; ISSN: 0035-2144
DT Journal
LA French
CC 58 (Cement and Concrete Products)
AB The studies concern the reactions were studied of a aluminosilicate
fly ash in contact with pure water,
water saturated with lime, and water saturated with portland cement. When
placed
in pure water the fly ash releases
alkalis and Ca in the form of sulfates. When the sulfates come in contact
with lime solution the initial products are ettringite and tobermorite, but
without sulfates only tobermorite is found. In contact with cement water
containing both sulfate and lime the fly ash produces
ettringite.
ST fly ash sulfate reaction; pozzolanic cement
fly ash
IT Ashes
(fly, mineral formation from, sulfate effect on)
IT Cement
(mineral formation in fly ash-containing, sulfate
effect on)
IT 1319-31-9P 12252-12-9P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in fly ash containing lime, sulfate
effect on)
IT 14808-79-8, properties
RL: PRP (Properties)
(mineral formation in fly ash containing)
IT 1305-62-0
RL: USES (Uses)
(mineral formation in fly ash containing, sulfate